

COVER SHEET (PAGE 1 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: BENICIA WATERFRONT MARSH RESTORATION
 Applicant Name: CITY OF BENICIA
 Mailing Address: 250 East L Street
 Telephone: (707) 746-4287
 Fax: (707) 747-8118

Amount of funding requested: \$ 253,000 for 1 years

Indicate the Topic for which you are applying (check only one box). Note that this is an important decision: see page ___ of the Proposal Solicitation Package for more information.

- | | |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> Fish Passage Assessment | <input type="checkbox"/> Fish Passage Improvements |
| <input checked="" type="checkbox"/> Floodplain and Habitat Restoration | <input type="checkbox"/> Gravel Restoration |
| <input type="checkbox"/> Fish Harvest | <input type="checkbox"/> Species Life History Studies |
| <input type="checkbox"/> Watershed Planning/Implementation | <input type="checkbox"/> Education |
| <input type="checkbox"/> Fish Screen Evaluations - Alternatives and Biological Priorities | |

Indicate the geographic area of your proposal (check only one box):

- | | |
|-----------------------------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Sacramento River Mainstem | <input type="checkbox"/> Sacramento Tributary: _____ |
| <input type="checkbox"/> Delta | <input type="checkbox"/> East Side Delta Tributary: _____ |
| <input checked="" type="checkbox"/> Suisun Marsh and Bay | <input type="checkbox"/> San Joaquin Tributary: _____ |
| <input type="checkbox"/> San Joaquin River Mainstem | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Landscape (entire Bay-Delta watershed) | <input type="checkbox"/> North Bay: _____ |

Indicate the primary species which the proposal addresses (check no more than two boxes):

- | | |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | |
| <input type="checkbox"/> Winter-run chinook salmon | <input type="checkbox"/> Spring-run chinook salmon |
| <input type="checkbox"/> Late-fall run chinook salmon | <input type="checkbox"/> Fall-run chinook salmon |
| <input type="checkbox"/> Delta smelt | <input type="checkbox"/> Longfin smelt |
| <input checked="" type="checkbox"/> Splittail | <input type="checkbox"/> Steelhead trout |
| <input type="checkbox"/> Green sturgeon | <input type="checkbox"/> Striped bass |
| <input checked="" type="checkbox"/> Migratory birds | |

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Indicate the type of applicant (check only one box):

- | | |
|---------------------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input type="checkbox"/> Non-profit |
| <input checked="" type="checkbox"/> Local government/district | <input type="checkbox"/> Private party |
| <input type="checkbox"/> University | <input type="checkbox"/> Other: _____ |

Indicate the type of project (check only one box):

- | | |
|-------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Planning | <input checked="" type="checkbox"/> Implementation |
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Education |
| <input type="checkbox"/> Research | |

By signing below, the applicant declares the following:

- (1) the truthfulness of all representations in their proposal;
- (2) the individual signing the form is entitled to submit the application on behalf of the applicant (if applicant is an entity or organization); and
- (3) the person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section II.K) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

Steve Lee CITY MANAGER
 (Signature of Applicant)

II. Executive Summary

a. Project Title and Applicant Name

Benicia Waterfront Marsh Restoration; City of Benicia

b. Project Description and Primary Biological/Ecological Objectives

The Benicia waterfront marsh area is located along the Carquinez Straits at the foot of First Street in downtown Benicia. The area includes approximately 8 acres of degraded salt marsh habitat. The goal of the proposed restoration project is to reestablish open tidal flows within the marsh area, enhance the overall health and habitat quality of the existing saline emergent wetlands (a CALFED Priority Habitat), and provide transitional uplands habitats adjacent to the marsh planted in native grasses.

This restoration project will enhance the quality of an existing saltwater marsh, provide habitat for several plant and animal species closely associated with tidal saline emergent wetlands, increase the exchange of nutrients between the wetlands and tidal aquatic communities, and provide potential rearing habitat for Delta fish species. These results would contribute directly to a number of specific implementation objectives identified in the CALFED ERPP as well as the Near-term Implementation Strategy.

c. Approach/Tasks/Schedule

The restoration project will occur in two phases. Phase 1 will involve preparing a final restoration plan (including channel refinements, a planting plan, weed control strategy, and monitoring plan) and environmental compliance/permitting. Phase 2 will focus on the actual physical implementation of the project, including construction of the tidal channels, removal and disposal of fill materials, planting, and removal of exotic vegetation. The entire project is expected to take approximately one year to complete, with each phase requiring approximately six months.

d. Justification for Project and Funding by CALFED

Saline Emergent Wetlands have been identified by CALFED as a Priority Habitat for restoration. As pointed out in the ERPP, there have been extensive losses of saline emergent wetland habitat in the North Bay and adjacent marshes (ERPP, Volume II, page 84). Such habitat is essential to estuary functions, and the health of many fish, waterfowl, and wildlife species, including many Priority Species identified by CALFED (ERPP, Volume II, page 93).

Many of the options for restoring saline emergent wetlands in the Suisun Marsh/North San Francisco Bay Ecological Zone are limited to the conversion of existing managed freshwater wetlands (ERPP Volume II, page 102) and/or the acquisition of private lands. The Benicia marsh restoration project represents an opportunity to restore existing tidal wetlands on lands which are already publicly owned. The project would not require any land acquisition, could be implemented relatively quickly, would be

highly visible to the public, and would be a cost effective use of CALFED restoration dollars.

e. Budget Costs and Third Party Impacts

Total Cost Estimate:	\$ 338,000
City of Benicia and other cost share dollars:	\$ 85,000
Request for CALFED funding:	\$ 253,000

Any required hazardous materials removal and disposal efforts would be funded entirely by the City and would not involve CALFED funds. No negative third party impacts will result from implementation of this project.

f. Applicant Qualifications

The City of Benicia has already funded preparation of a Waterfront Restoration Plan and environmental evaluation, a draft Marsh Restoration Plan, and an hazardous materials site investigation. The City recently solicited proposals from consultants to assist with continued planning of the restoration project and selected ED&AW, Inc. to manage and direct the restoration. At the completion of Phase 1, the City expects to solicit bids for the construction of the restoration project.

g. Monitoring and Data Evaluation

A detailed monitoring plan will be developed during Phase 1 of the project and carried out during construction as well as after construction is complete. Some of the indicators that would be incorporated into the monitoring plan would include, reproduction of target saline emergent wetland vegetation, success of the exotic plant removal, use of channels for fish rearing, and use of the marsh by specific wildlife species.

h. Local Support/Coordination with Other Programs/Compatibility with CALFED Objectives

The Benicia Marsh Restoration Project is broadly supported by local, regional, and state interests, including the County Board of Supervisors, Benicia Unified School District, San Francisco Bay Conservation and Development Commission (BCDC), USFWS, and Congressmen Miller's Office. Several letters of support for the project are appended to this proposal. With regard to coordination and compatibility with CALFED objectives, the project is an integral component of the City's long-term vision for the waterfront and has been incorporated into all its planning for this area. The project is directly compatible with several of CALFED ecosystem restoration objectives and is not counter to any of CALFED's other program goals.

III. Title Page

a. Title of Project

Benicia Waterfront Marsh Restoration

b. Name of Applicant/Principle Investigator; Address; Phone/Fax/E-mail

City of Benicia
250 East L Street, Benicia, CA 94510
Attn: Michael Alvarez, Director of Parks and Community Services
Phone: (707) 746-4287
Fax: (707) 747-8118
E-mail: alvarez@castles.com

c. Type of Organization and Tax Status

City Government; Exempt

d. Tax Identification Number

94-6000298

e. Participants/Collaborators in Implementation

The City of Benicia as the lead agency will work closely with the regulatory agencies, including the California Department of Fish and Game and the San Francisco Bay Conservation and Development Commission, to complete the restoration plan and obtain all the necessary permits for implementation. The City also intends, as an integral component of the plan, to engage local community volunteers and schools in the active implementation of the project. This will provide additional education opportunities as well as promote overall stewardship and ownership of the project.

The City has also spoken with several other agencies regarding potential cost sharing for the project including the Environmental Protection Agency, and the U.S. Fish and Wildlife Service. The City will apply for additional cost share funds later this year.

With regard to planning and design, the City has retained EDAW, Inc. to assist with final project design and environmental compliance. Once all permits are in place, the City will retain the services of a contractor to implement the construction of the project, including fill removal, channel creation, removal of exotic species and planting of native grasses.

information in an effort to move quickly towards implementation. Some elements of the Urban Waterfront Plan (originally prepared in 1991), primarily the proposed trainwalk through the existing marsh, are not included in this project. The City believes such a structure in the marsh would be inconsistent with restoration and protection/enhancement of endangered species habitat. Instead, this project proposes two viewing platforms (situated at either end of the originally proposed walkway) to provide education and interpretive opportunities.

The proposed restoration project involves two primary phases. Each of these two phases are briefly described below with a listing of specific tasks associated with each. Tables 1 and 2 provide a summary of schedule, deliverables, and proposed budget for each task, as well as an indication of whether or not the task is separable from the overall project.

Phase 1 - Final Planning and Permitting. Phase 1 will focus on finalizing the restoration plan and obtaining all the necessary permits for the project. Phase 1 will involve the following tasks:

Task 1.1. Prepare Final Restoration Plan. Several preliminary studies have been conducted related to restoration of the Benicia Marsh, including a draft marsh restoration plan prepared in 1992. The following subtasks will be initiated to further define the restoration plan and respond to updated information.

Subtask 1.1.1. Refine Channel Design and Grading Plan. Since preparation of the draft Marsh Restoration Plan, additional information has been gathered on the nature, extent and location of site contamination (including several test pits and auger borings). Based on this information, the originally proposed channel configuration in the marsh will be refined to avoid any potential for disturbance of hazardous materials. In addition, necessary engineering construction drawings will be prepared.

Subtask 1.1.2. Prepare Planting Plan. Specific species and plant pallets will be identified for enhancement planting both within the existing marsh and in the upland transition zone.

Subtask 1.1.3. Prepare Exotic Weed Control Plan. This plan will address removal and control of exotic vegetation (in the marsh and in the transition zone).

Subtask 1.1.4. Prepare Monitoring Plan. Monitoring activity (both during and after construction) will be detailed. Elements of the monitoring plan are described in more detail in Section IV.f. "Monitoring and Data Evaluation." This task will address both short-term and long-term monitoring of the project.

Task 1.2. Design Viewing Platforms and Displays. Construction drawings for two simple, raised wooden viewing platforms will be prepared along with specifications for appropriate interpretive signs. Interpretation will focus on the restoration of the marsh habitat and its ecological values relative to the Bay-Delta.

Task 1.3. Complete Environmental Compliance/Permitting. Consultation with the appropriate resource/regulatory agencies including, the USFWS, San Francisco Bay Conservation and Development Commission (BCDC), California Department of Fish and Game, and the Regional Water Quality Control Board will begin immediately. A strategy for permitting will be developed and the appropriate level of NEPA/CEQA documentation prepared.

Phase 2 - Construction/Implementation. Using the specifications developed in Phase 1, contractors will be retained for physical construction of the project. To the extent feasible, the City also anticipates that California Conservation Corps crews and local community volunteers will be employed to assist with implementation, particularly hand clearing of exotic vegetation and planting of native grasses in the upland transition zone. Maximum community involvement, including school children, will further promote the education and interpretation goals of the project and foster a greater sense of stewardship, and ownership of the project. Phase 2 will involve the following specific tasks:

Task 2.1. Construct Channels and Remove Fill. Course material which has been deposited at the water side of the marsh will be removed to permit water to enter the marsh at high tide. In addition, continuous channels will be created within the marsh to enhance the flow of water, especially to the land side of the marsh. Construction techniques will be employed to minimize disturbance to the marsh habitat.

Task 2.2. Remove and Control Exotic Vegetation. Exotic plants will be removed from the marsh and adjacent upland areas and measures taken to prevent re-establishment.

Task 2.3. Plant Native Vegetation. Plantings will be made using native materials to enhance the habitat values of the site and restore conditions to a more natural state. Most of this work will be done by hand involving volunteers and City staff to the maximum extent possible.

Task 2.4. Long-Term Monitoring. Quarterly monitoring will be conducted at the site for a five year period following construction of the project. To the extent practicable, this monitoring will be a component of the project's education program and will be conducted by community volunteers and school children. This will allow for community engagement not only in the construction of the project, but also in monitoring its long-term success.

Task 2.5. Construct Viewing Platforms/Displays. Two raised pedestrian viewing platforms will be constructed at the edges of the marsh. Interpretive signs will be made and installed at each platform, as described in Task 1.2 above.

c. Location and/or Geographic Boundaries of the Project

The Benicia Waterfront Marsh is located in Solano County along the north shore of the Carquinez Strait at the foot of First street in downtown Benicia. The site is approximately 8 acres in size and is bordered by the Strait to the south, B Street to the north, Point Benicia to the west and the Benicia Marina to the east (See Figures 1 and 2 attached).

d. Expected Benefits

Restoration of the Benicia tidal marsh will reduce several stressors identified by CALFED. Specific stressors and how the project addresses them are shown in Table 3.

The primary priority habitat expected to benefit from the project is Saline Emergent Wetland. Priority species expected to benefit include: (1) salt marsh harvest mouse; and (2) native delta fishes, including splittail and delta smelt.

Some of the specific benefits expected include the following:

- Significantly increasing the quality of the saline emergent wetland habitat.
- Providing habitat for several plant and animal species closely associated with tidal saline emergent wetlands (including state and federally listed species).
- Increasing the exchange of nutrients between the wetlands and tidal aquatic communities, thereby contributing to the aquatic foodweb of the Bay-Delta.
- Providing potential rearing habitat, for Delta smelt and Sacramento splittail.
- Removing compacted fill and contaminants from the marshplain.
- Removing exotic vegetation and planting native species.
- Providing escape and cover areas for the salt marsh harvest mouse.
- Providing a buffer between the marsh and adjacent urban areas.
- Fostering local stewardship.
- Providing opportunities for education.
- Increasing public understanding.

These results will contribute directly to a number of specific implementation objectives identified in the CALFED ERPP as well as the Near-term Implementation Strategy (as described below).

e. Background and Ecological/Biological/Technical Justification

The Benicia marshplain area has been highly disturbed and is currently in a degraded state. The marsh is isolated, both hydrologically and physically from the Bay, contains compacted fill material, and contains several invasive exotic weed species. The area currently provides marginal habitat for priority species. Despite the area's degraded

state, the marsh does represent a remnant of the once extensive tidal marshes that historically existed along the shores of the Bay. Restoring this tidal marshplain would be relatively simple. The area is already a tidal marsh and is already in public ownership.

Specific ERPP Implementation Objectives addressed through this restoration project include:

1. Increasing the area of saline emergent wetlands (ERPP Volume I, page 97).
2. Providing high quality habitat for waterfowl, shorebirds, and other associated wildlife (ERPP Volume I, page 97).
3. Improving the amount of nutrients available to estuarine systems for foodweb productivity (ERPP Volume II, page 101).
4. Assisting in the recovery of the salt marsh harvest mouse (ERPP Volume I, page 251).
5. Increasing the area of salt marsh adjacent to San Pablo and Suisun Bay (ERPP Volume I, page 251).
6. Reducing populations of invasive, non-native species that compete with native species (ERPP Volume II, page 108).

Other justification for the proposed project includes the following:

1. **Focused on Priority Habitat and Species.** As identified in Section IV.d. above, the project is designed to enhance saline emergent wetlands and provide habitat primarily for the salt marsh harvest mouse. The project will also increase the exchange of nutrients between the wetlands and tidal aquatic communities, thereby contributing to the aquatic foodweb.
2. **Consistent with CALFED Goals.** The project is consistent with CALFED's goal of restoring the ecological health of priority habitats and species.
3. **Cost Effective.** Because the Benicia Marsh is already a tidal marsh and is located on public lands, restoration would not result in any habitat or land use changes and would not require land acquisition.
4. **Strong Local Community Support.** Restoration of the Benicia Marsh was originally conceived through an extensive local public participation effort focused on the Benicia Waterfront. The project is endorsed by the local community and the regulatory agencies.
5. **Opportunities for Education and Interpretation.** In addition to physical habitat restoration, the project offers significant opportunities for community involvement, public education and interpretation given its location in downtown Benicia.

6. **Potential for High Visibility.** The project is strategically located adjacent to an urban area. This provides an opportunity for significant public exposure to restoration activities in the Bay-Delta.

f. Monitoring and Data Evaluation

A monitoring program will be developed as part of the permitting application in cooperation with the California Department of Fish and Game and the U.S. Fish and Wildlife Service. The monitoring program will be designed to address conditions during construction as well as after construction (for a period of five years). Opportunities will be explored to develop long-term monitoring in conjunction with interpretation and education objectives.

The program will establish measurable goals for the restoration and include development of specific performance criteria. Some of the indicators that would be incorporated into the monitoring plan would include, reproduction of target saline emergent wetland vegetation, success of exotic plant control measures, use of channels for fish rearing, and use of the marsh by specific wildlife species. The biological monitoring plan will be designed to be consistent with standards and approaches currently being developed as part of the CALFED Comprehensive Monitoring, Assessment and Research Program (CMARP).

g. Implementability

The Benicia Marsh Restoration Project is consistent with regulations and policies regarding the recovery of endangered species, conservation of wetlands, and the reduction of fill material along the San Francisco Bay shoreline. The project has both local community support and resource agency support (see attached letters of support). Considerable planning has already been conducted by the City through expenditure of City funds and grant funds from the Coastal Conservancy. Existing plans include a draft marsh restoration plan, a draft hazardous materials assessment report, an Urban Waterfront Restoration Plan, and an environmental review of the waterfront plan, which includes a biological assessment of the existing marsh area. These existing studies and planning documents will serve as the foundation for moving forward with implementation. They also point to the considerable local commitment to, and regulatory support for, this project. The project will be jointly funded by the City of Benicia and other possible cost share partners, including the U.S. Fish and Wildlife Service and the U.S. Environmental Protection Agency.

Table 1: Summary of Phase 1 - Final Planning and Permitting

Task	Schedule	Deliverables	Budget	Relation to Overall Plan
<u>Task 1.1.</u> Prepare Final Restoration Plan		<ul style="list-style-type: none"> Final Marsh Restoration Plan 	Sum of Subtasks 1.1.1 - 1.1.4 below	Inseparable
<i>Subtask 1.1.1.</i> Refine Channel Design and Grading Plan	Nov. 1998	<ul style="list-style-type: none"> Refined Channel Design and Grading Construction Drawings Construction Strategy and Guidelines 	\$24,000	Inseparable
<i>Subtask 1.1.2.</i> Prepare Planting Plan	Nov. 1998	<ul style="list-style-type: none"> Planting Plan 	\$8,000	Inseparable
<i>Subtask 1.1.3.</i> Prepare Exotic Weed Control Plan	Nov. 1998	<ul style="list-style-type: none"> Exotic Vegetation Removal and Control Strategy 	\$3,000	
<i>Subtask 1.1.4.</i> Prepare Monitoring Plan	Dec. 1998	<ul style="list-style-type: none"> Monitoring Plan Quarterly Reporting Final Report 	\$8,000	Inseparable
<u>Task 1.2.</u> Design Viewing Platforms and Displays	Dec. 1998	<ul style="list-style-type: none"> Design and Construction Drawings 	\$10,000	Separable
<u>Task 1.3.</u> Complete Environmental Compliance and Permitting	Jan. - May 1999	<ul style="list-style-type: none"> NEPA/CEQA Document Permits to Construct 	\$45,000	Inseparable
Subtotal for Phase 1			\$98,000	

Table 2: Summary of Phase 2 - Construction/Implementation

Task	Schedule	Deliverables	Budget	Relation to Overall Plan
<u>Task 2.1.</u> Construct Channels and Remove Fill	July 1999	<ul style="list-style-type: none"> Restored Channel Circulation Fill Removal and Disposal Improved Habitat 	\$100,000*	Inseparable
<u>Task 2.2.</u> Remove and Control Exotic Vegetation	June - July 1999	<ul style="list-style-type: none"> Removal of Exotics 	\$20,000	Inseparable
<u>Task 2.3.</u> Plant Native Vegetation	June - July 1999	<ul style="list-style-type: none"> Functional Transition Zone Improved Habitat Local Stewardship 	\$25,000	Inseparable
<u>Task 2.4.</u> Long-Term Monitoring	Aug. 1999 - Aug. 2004	<ul style="list-style-type: none"> Annual Monitoring Reports 	\$25,000	Separable
<u>Task 2.5.</u> Construct Viewing Platforms/ Displays	Aug - Sept. 1999	<ul style="list-style-type: none"> Improved Public Understanding Enhanced Project Visibility 	\$70,000	Separable
Subtotal for Phase 2			\$240,000	

* This figure is a preliminary estimate grading and fill removal. Some fill material may require more expensive disposal requirements depending on contaminant levels. The City of Benicia will pay for removal and disposal costs directly associated with the handling of hazardous materials encountered on-site during construction.

Figures (Maps) and Photos of Site

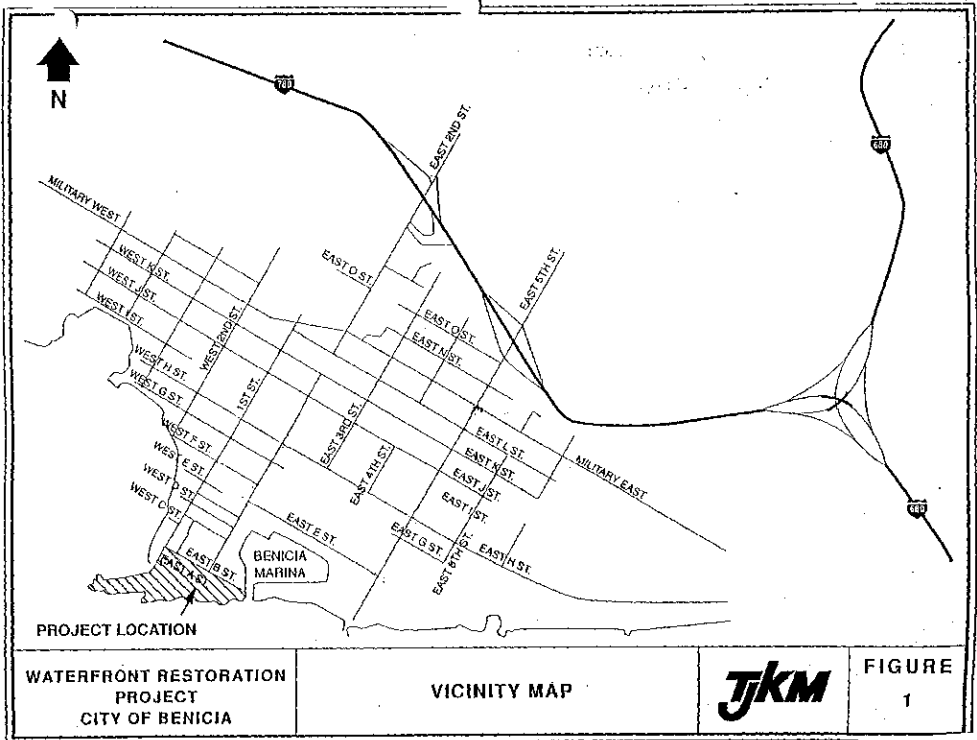
Corresponds to Section IV

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ATTACHMENT B



1-009405

Michael Cannon: Michael is a landscape architect with extensive experience in master planning, site design and construction drawings. Michael will provide expertise with regard to the planting plan and the design of the proposed viewing platforms and interpretive displays.

VII. Compliance with Standard Terms and Conditions

All appropriate forms for this submittal are attached. The City of Benicia has no exceptions to the stated terms and conditions detailed in the CALFED Solicitation Package and appended materials.

V. Costs and Schedule to Implement Proposed Project

a. Budget Costs

Cost estimates for each proposed task and subtask necessary to accomplish the Benicia Marsh Restoration Project are listed in Tables 1 and 2 of this proposal. A more detailed breakdown of the cost estimates (including the expected sources of funds) are provided in Table 4. CALFED funding is being requested for this project because to date the City of Benicia has been unable to generate sufficient funds to complete the necessary planning and construct the project, and because the project is consistent with the goals of the CALFED Program. Funding for the two identified phases of the project could be provided incrementally. However, early completion of the project (as identified in the schedule below) will require committed funds for both phases. The City of Benicia is actively pursuing potential cost share partners. If CALFED funding is not provided, these other sources could allow the project to proceed, at least through the next level of planning. However, the project will move at a much slower rate or may not be implemented. Other sources of funding being pursued (in addition to City funds) include the U.S. Fish and Wildlife Service's SF Bay Program, and the U.S. Environmental Protection Agency's Wetlands Protection Program. The City anticipates submitting formal proposals for these funds later this year. Subcontractors for this project have been selected based on a Request for Qualifications process conducted in March of this year. A construction contractor for Phase 2 of the project will be identified through a similar competitive process once specifications are developed.

b. Schedule Milestones

The proposed project schedule is as follows:

Phase 1 - Final Planning and Permitting

Task 1.1. Prepare Final Restoration Plan	Nov. - Dec. 1998
Task 1.2. Design Viewing Platforms and Displays	Nov. - Dec. 1998
Task 1.3. Complete Environmental Compliance/Permitting	Jan. - May 1999

Phase 2 - Construction/Implementation

Task 2.1. Construct Channels and Remove Fill	July - Aug. 1999
Task 2.2. Remove and Control Exotic Vegetation	June - July 1999
Task 2.3. Plant Native Vegetation	June - July 1999
Task 2.4. Conduct Long-Term Monitoring	Aug. 1999 - Aug. 2004
Task 2.5. Construct Viewing Platforms/Displays	Aug. - Sep. 1999

c. Third Party Impacts

No third party impacts are expected as a result of this project.

Table 4: Detailed Cost Estimate for Benicia Waterfront Marsh Restoration Project

Project Phase and Task	Funding Source	Direct Labor Hours	Direct Salary & Benefits	Overhead Labor (General Admin. & Fee)	Service Contracts	Material & Acquisition Contracts	Misc. & Other Direct Costs	Cost to CALFED	Cost to City & Other Cost Share Partners	Total Cost
Phase 1 - Final Planning and Permitting										
Task 1.1. Prepare Final Restoration Plan								\$34,000	\$19,000	\$53,000
Subtask 1.1.1. Channel Design and Grading	CALFED				\$15,000			\$15,000		\$15,000
	City/Other	80	\$1,600	\$2,400	\$5,000			\$0	\$9,000	\$9,000
Subtask 1.1.2. Planting Plan	CALFED				\$8,000			\$8,000		\$8,000
Subtask 1.1.3. Exotic Weed Control Plan	CALFED				\$3,000			\$3,000		\$3,000
Subtask 1.1.4. Monitoring Plan	CALFED				\$8,000			\$8,000		\$8,000
Task 1.2. Design Viewing Platforms and Displays	City/Other				\$10,000			\$0	\$10,000	\$10,000
Task 1.3. Environmental Compliance/Permitting	CALFED				\$25,000			\$25,000		\$25,000
	City/Other	200	\$5,000	\$7,500	\$5,000		\$2,500		\$20,000	\$20,000
Subtotal for Phase 1								\$59,000	\$39,000	\$98,000
Phase 2 - Construction/Implementation										
Task 2.1. Construct Channels and Remove Fill	CALFED				\$80,000			\$80,000		\$80,000
	City/Other	100	\$2,500	\$3,000	\$14,000		\$500		\$20,000	\$20,000
Task 2.2. Remove and Control Exotic Vegetation	CALFED				\$15,000			\$15,000		\$15,000
	City/Other	100	\$2,000	\$3,000					\$5,000	\$5,000
Task 2.3. Plant Native Vegetation	CALFED				\$15,000	\$5,000		\$20,000		\$20,000
	City/Other	100	\$2,000	\$3,000					\$5,000	\$5,000
Task 2.4. Conduct Long-Term Monitoring	CALFED				\$20,000			\$20,000		\$20,000
	City/Other	100	\$2,000	\$3,000					\$5,000	\$5,000
Task 2.5. Construct Viewing Platforms	CALFED				\$59,000			\$59,000		\$59,000
	City/Other	100	\$2,500	\$3,000	\$5,000		\$500		\$11,000	\$11,000
Subtotal for Phase 2								\$194,000	\$46,000	\$240,000
Total for Phase 1 and 2								\$253,000	\$85,000	\$338,000

Benicia Waterfront Marsh Restoration Project
Subtotal for CALFED Funding

City of Benicia
Section V - Table 1

1-009409

1-009409

VI. Applicant Qualifications

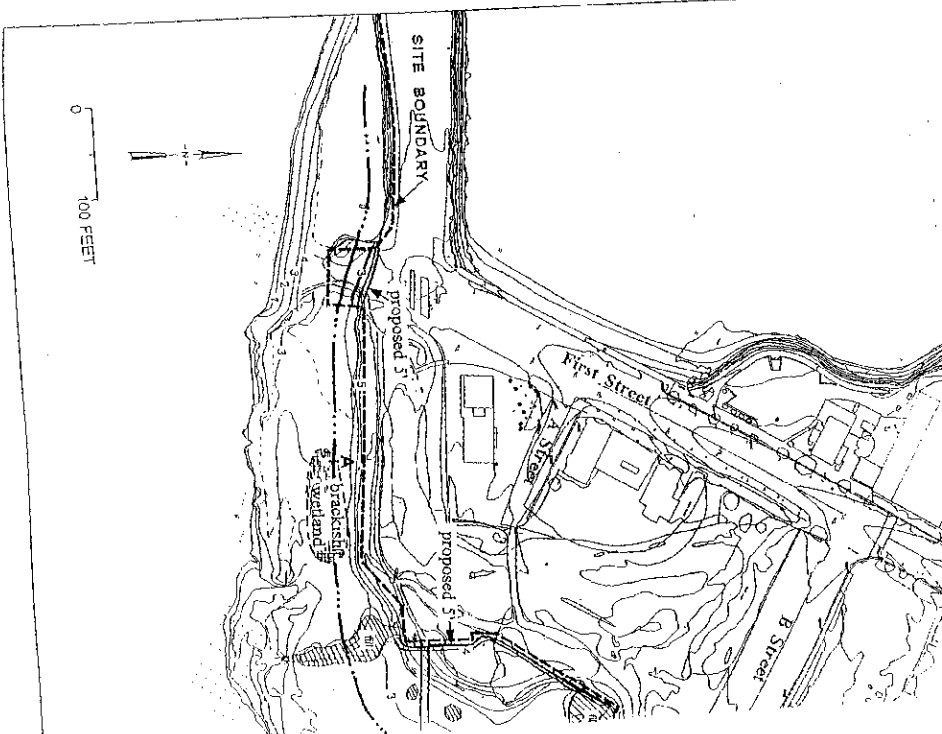
The City of Benicia owns the property proposed for restoration and all adjoining property. Its staff includes planners, engineers, and project managers with extensive background and experience in project implementation. The project will be administered and managed by the City's Director of Parks and Recreation, Michael Alvarez. Mr. Alvarez has considerable experience in managing subconsultants and construction projects. It is anticipated that the City's local Waterfront Task Force, which was formed during the original development of the Urban Waterfront Plan will also be involved in project planning and construction, as well as local community volunteer groups interested in the waterfront area. It is also anticipated that members of the Benicia Unified School District will also be involved during the construction and monitoring phases of the project. The City also anticipates a close working relationship with agency representatives throughout the process and may establish a standing work group of agency representatives to help with overall coordination of the project.

The City of Benicia has selected EDAW, Inc. as a subcontractor to assist with planning and design of the project. EDAW was selected through a competitive solicitation in March 1998. EDAW is an environmental planning, biology, and landscape architecture firm that specializes in habitat restoration and environmental compliance. EDAW has been involved with CALFED planning activities related to the ERPP and is currently working on several restoration planning assignments involving CALFED and CVPIA funding. Key technical staff that will be involved in the project and their relevant experience are listed below.

Steve Patterson, Ph.D.: Steve is a plant geographer and restoration ecologist with 18 years of experience managing and conducting biological studies and designing restoration plans. Steve has specialized expertise in revegetation design and programs to control exotic pest plant species. Steve also has extensive experience designing monitoring programs for restoration projects.

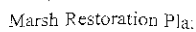
Gerald Dion: Jerry is a biologist and landscape architect specializing in ecological restoration. Jerry has recently been involved in the development of several mitigation and restoration planning studies associated with development of a statewide HCP for the State Department of General Services.

John Pelka: John has 20 years of experience in regulatory compliance and CEQA studies, particularly as they relate to conservation and restoration planning projects. John is currently managing the *Tuolumne River Restoration and Mitigation Projects EASIS*, and the largest wetland/river restoration project to date in the Tahoe Basin - *The Upper Truckee Restoration Project*. John recently received a Governors award for "outstanding contributions in the area of environmental restoration and rehabilitation."

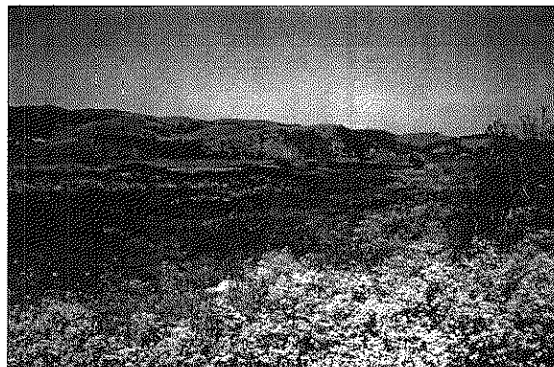


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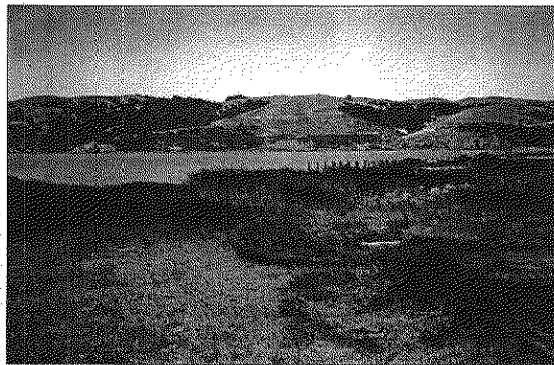
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Benicia Waterfront Marsh Restoration Project
Site Photos



Looking south across existing Benicia Marsh.



View of Carquinez Strait with Benicia Marsh in the foreground.

Benicia Waterfront Marsh Restoration Project
Site Photos

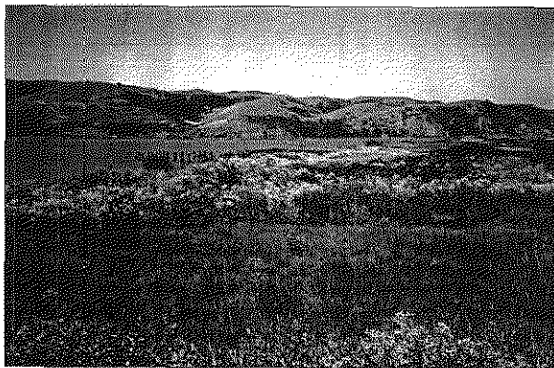


View west toward Benicia Bridge from within Benicia Marsh.

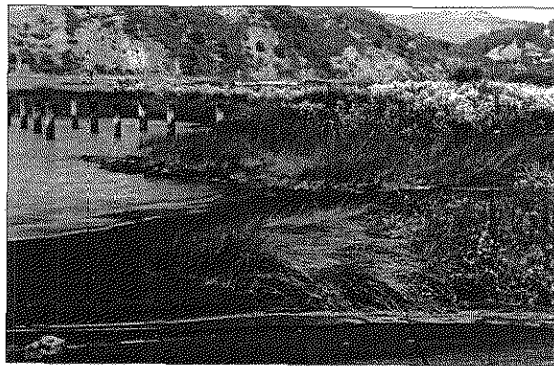


Benicia Marsh, looking southeast.

Benicia Waterfront Marsh Restoration Project
Site Photos

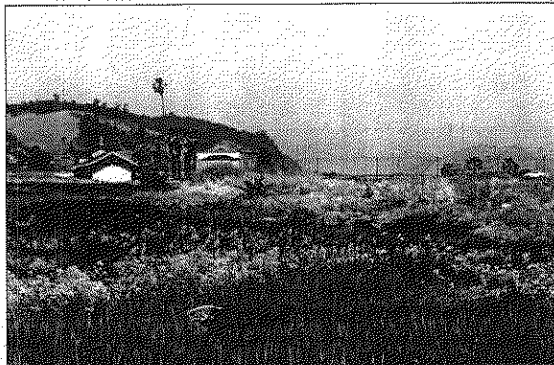


Exotic vegetation associated with fill areas within Marsh.



Waterfront edge of Benicia Marsh.

Benicia Waterfront Marsh Restoration Project
Site Photos



View looking west of historic train depot with Benicia Marsh in foreground and the Carquinez Bridge in the background.



Existing Benicia Marsh shoreline/waterfront edge.

Documentation of Support

Corresponds to Section IV.g. "Implementability"

SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION

THIRTY VAN NESS AVENUE, SUITE 2011
SAN FRANCISCO, CALIFORNIA 94102-6580
PHONE: (415) 967-3898

June 19, 1998

JUN 25 1998

Lester A. Snow
Executive Director
CALFED Bay Delta Program
1416 Ninth Street
Sacramento, California 95814

SUBJECT: CALFED Funding of Waterfront Marsh Restoration, City of Benicia

Dear Mr. Snow:

One of the San Francisco Bay Conservation and Development Commission's many goals is the continued enhancement, restoration and preservation of marshes, wetlands and natural shoreline areas throughout San Francisco Bay. In addition, the San Francisco Bay Conservation and Development Commission, at a recent strategic planning retreat, reaffirmed its goals to provide public access where compatible with resource protection, support appropriate shoreline development and promote the optimum use and management of Bay resources. Consistent with these goals, the City of Benicia has been working on a project to improve salt marsh habitat by restoring approximately 8 acres of tidal marsh in downtown Benicia. The project would also include passive coastal recreation and interpretive and educational opportunities. For many years, the City has been working to enhance this section of its waterfront and make it an important ecological and historical piece of downtown Benicia. CALFED's support of the project would help to provide many public benefits that would serve the residents of the City of Benicia and those who visit this historic community.

Our preliminary staff review of the project finds that it would likely be consistent with the McAtee-Petris Act, the *San Francisco Bay Plan* and the Commission's *Special Area Plan for the Benicia Waterfront* because it would promote: "open space; [an] ecological reserve; water-oriented public recreation and access." The project would need to receive a Commission permit prior to construction, and such permit would likely be conditioned to preserve the wildlife habitat and ecological functions in perpetuity and protect wildlife from potential adverse impacts from public access and recreation, thereby ensuring the project would be consistent with the Commission's laws and policies.

On behalf of the Commission, I urge you to support the Benicia's Waterfront Marsh Restoration Project because it would provide multiple benefits including: (1) restored salt marsh habitat; (2) enhanced public educational and passive coastal recreational opportunities; and (3) improved use and recognition of this important, historical site strategically located between the Bay and Delta.

Should you have any questions regarding our comments, please feel free to contact me or Nick Salcedo of our staff at (415) 557-3689.

Sincerely,


WILL TRAVIS
Executive Director

WT/NS/ra

cc: San Francisco Bay Congressional Delegation
Honorable Jerry Hayes, Mayor, City of Benicia
William Ahern, State Coastal Conservancy
Robert Brauer & Ellen Johnck, BDAC
Tony McDonald, Coastal States Organization
Barry Nelson, Save San Francisco Bay Association

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I-009418

Benicia Unified School District

A Partnership For Learning

Superintendent:

Annette O'Connor, Ph.D.

Governing Board:

Pierre Bidou
Diane Dooey, M.D.
Karen Empey
Reg Page
Shel Ryan

Schools:

Benicia High School
*California Distinguished
High School 1992
California Distinguished
High School 1996*

Benicia Middle School
*California Distinguished
Middle School 1994
National Blue Ribbon School 1996*

Liberty High School

Joe Henderson Elementary
*California Distinguished
Elementary School 1994*

E. Fernald Elementary
Andrew Turner Elementary

Robert Sample Elementary
*California Distinguished
Elementary School 1993*

Robert Sample Elementary

June 12, 1998

Mr. Otto Wm. Giuliani
City Manager
City of Benicia
250 East L Street
Benicia, CA 94510

Dear Mr. Giuliani

The Benicia Unified School District is presenting this letter of support for the City's efforts to secure funding for an ecosystem restoration proposal to CALFED Bay-Delta Program.

As we understand, the proposed project is to restore approximately eight acres of saltwater marsh located at the foot of First Street in downtown Benicia extending from Pointe Benicia to the breakwater of the Marina entry channel and to construct approximately 400 linear feet of walkway above the interior marsh for viewing.

The Benicia Unified School District believes this project will enhance the educational opportunities for our students. Studies of the Bay-Delta System are an important educational element of our curriculum. Enhancements to the marsh providing public access opportunities will expand our educational opportunities.

We offer our support in your efforts to accomplish the restoration and enhancement of the saltwater marsh.

Sincerely,

Annette O'Connor, Ph.D.
Superintendent

AOC:s

350 East K Street
Benicia, CA 94510
(707) 747-8300
FAX (707) 746-6152

I - 0 0 9 4 1 9

I-009419

GEORGE MILLER
7TH DISTRICT, CALIFORNIA
2705 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515-0507
(202) 225-2095
DANIEL WEISS
ADMINISTRATIVE ASSISTANT
COMMITTEE ON RESOURCES
COMMITTEE ON EDUCATION
AND THE WORKFORCE
VICE CHAIR
DEMOCRATIC POLICY COMMITTEE

Congress of the United States
House of Representatives
Washington, DC 20515-0507

June 12, 1998

JUN 16 1998

DISTRICT OFFICES
1333 Willow Pass Rd.
Suite 200
CONCORD, CA 94520
(916) 962-1800
DAVID TUCKER
DISTRICT DIRECTOR
3220 BLAKE DR.
SUITE 201
RICHMOND, CA 94806
(510) 252-8500
1924 SPRINGS RD.
VALLEJO, CA 94591
(707) 845-1868
TTY (707) 225-1804

Otto Giuliani, City Manager
City of Benicia
250 East L Street
Benicia, CA 94510

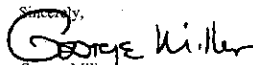
Dear Mr. Giuliani:

I am writing in strong support of the request by the City of Benicia for a Habitat Restoration Grant from CalFed for the Waterfront Marsh Restoration Project.

This proposal will restore approximately an eight acre saltwater marsh located at the foot of First Street, extending from Point Benicia to the breakwater of the marina entry channel, and the construction of approximately 400 linear feet of pile-supported wooden walkway above the interior marsh for viewing. Restoration of this marsh will provide vital salt marsh habitat for plants and wildlife. The overlook will enhance opportunities for public education regarding a natural marsh environment and for passive recreation such as birding and walking.

This marsh is bounded to the south and west by Carquinez Bridge, to the north by high ground along First and B Streets, and to the east by the Benicia Marina. The shore along Carquinez Strait consists primarily of a narrow sand and peat beach, and a band of dunes protects most of the marsh from direct wave action. Although ground elevations within the marsh are generally in the range that would support healthy salt marsh vegetation, the existing vegetation is sparse with large barren spots. This is due to inadequate connections between the marsh and Carquinez Strait and the presence of compact fill material on the surface of the marshplain. The focus of the restoration plan is to improve tidal circulation within the marsh and return its vigor.

I hope the City of Benicia is successful with this grant request.

Sincerely,

George Miller
Member of Congress
7th District, California

PRINTED ON RECYCLED PAPER

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I-009420



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish and Wildlife Office
3310 El Camino Avenue, Suite 130
Sacramento, California 95821-6340

June 25, 1998

Mr. Mike Alvarez
City of Benicia
250 East "L" Street
Benicia, California 94510

Subject: Benicia Waterfront Marsh Restoration Project

Dear Mr. Alvarez:

Recently you brought to our attention the city of Benicia's plans to restore natural tidal flow to about 8 acres of historic tidal salt marsh on the Benicia waterfront.

From the information provided to us by your consultants, EDAN, Inc., it appears to be a great project for fish and wildlife. Benicia seeks to correct past misuse of tidal marsh that has been filled and contaminated by excavating the fill, removing contaminated soils, and constructing tidal channels. The result should be a naturally functioning tidal salt marsh with much higher fish and wildlife values than exist today.

Your proposal appears consistent with the Fish and Wildlife Service's mission and all indications are that we can support it. In addition to your other potential funding sources, please consider, if needed, making a proposal for funding to us under our San Francisco Bay Program. We have partnered in about 100 projects in the last 7 years and your project is one that appears desirable for partnering with our program. We anticipate having funding and would like to consider your proposal in FY 1999 (starting October 1, 1998). We can make no promises of funding now but we do want to see your project succeed in being implemented. One thing our San Francisco Bay Program would seek from your project, if we did partner, would be lessons learned for other restoration projects to benefit from. One way to accomplish this would be to identify some reference site conditions as targets for the Benicia waterfront marsh restoration project. By doing so, it gives measured targets for the post-project monitoring to be compared against.

Thank you for bringing this project to our attention and identifying the potential for future partnering. Contact Richard Morat at (916) 979-2116 ext 370 regarding our San Francisco Bay Program.

Sincerely,

Wayne S. White
Field Supervisor

cc: Pat Leonard
Bruce DiGennaro, EDAN, Inc. 753 Davis St., San Francisco CA 94111
FAX 415 788 4875

1 - 0 0 9 4 2 1

1-009421

Attachment E

Corresponds to Section VII

**Certifications Regarding Debarment, Suspension and
Other Responsibility Matters, Drug-Free Workplace
Requirements and Lobbying**

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used or use this form for certification and sign. (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

CHECK IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE

(1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency;
- (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

(2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions

CHECK IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE

(1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

(2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

01-2010
June 1995
(This form requires 01-1843, 01-1844,
01-1845, 01-1846 and 01-1847)

PART C: Certification Regarding Drug-Free Workplace Requirements

CHECK IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL

Alternate I. (Grantees Other Than Individuals)

A. The grantee certifies that it will or continue to provide a drug-free workplace by:

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about—
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's policy of maintaining a drug-free workplace;
 - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will —
 - (1) Abide by the terms of the statement; and
 - (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;
- (f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted —
 - (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
 - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).

B. The grantee may insert in the space provided below the steps for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

Foot of First Street

Check if there are workplaces on file that are not identified here.

PART D: Certification Regarding Drug-Free Workplace Requirements

CHECK IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL

Alternate II. (Grantees Who Are Individuals)

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

DE-2010
June 1994
Title from regulation DE-1983, DE-1984,
DE-1985, DE-1986 and DE-1987

PART E: Certification Regarding Lobbying
Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND
THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT;
SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL
LOAN EXCEEDING THE AMOUNT OF \$100,000, OR A SUBGRANT OR
SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.



SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

Otto Wm. Giuliani City Manager

TYPED NAME AND TITLE

DATE

501010
JUNE 1966
(This form replaces GS-1993, GS-1964,
GS-1155, GS-1056 and GS-1043)

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1-009425